## **CLAIMS**

What is claimed is:

- 1. An actuator assembly, comprising:
  - a telescopic member defining an axis;
- a linear electric motor attached to said telescopic member along said axis such that operation of said linear electric motor drives said telescopic member between an extended and a retracted position.
- 2. The actuator assembly as recited in claim 1, wherein said telescopic member is biased toward said extended position.
- 3. The actuator assembly as recited in claim 1, wherein said telescopic member is a gas spring.
- 4. The actuator assembly as recited in claim 3, wherein said linear electric motor includes a slidable rotor mounted to a cylinder of said gas spring.
- 5. The actuator assembly as recited in claim 4, wherein said slidable rotor is drivable along a stator having a substantially U-shape in cross section.
- 6. The actuator assembly as recited in claim1, further comprising a controller in communication with said linear electric motor to drive said telescopic member between said extended and said retracted position.
- 7. The actuator assembly as recited in claim6, further comprising a remote to transmit a position signal to said controller.

## 8. A vehicle closure member, comprising:

a gas spring defining an axis, said gas spring biased toward an extended position, one end of said gas spring mounted to a vehicle liftgate and an opposite end of said gas spring mounted to a vehicle body, said gas spring movable between said extended position and a retracted position; and

a linear electric motor attached to said gas spring along said axis such that operation of said linear electric motor drives said gas spring between an extended and a retracted position.

- 9. The vehicle closure member as recited in claim 8, wherein said linear electric motor includes a slidable rotor mounted to a cylinder of said gas spring.
- 10. The vehicle closure member as recited in claim 9, wherein said slidable rotor is drivable along a stator having a substantially U-shape in cross section.
- 11. The vehicle closure member as recited in claim8, further comprising a controller in communication with said linear electric motor to drive said telescopic member between said extended and said retracted position.
- 12. The vehicle closure member as recited in claim11, further comprising a remote to transmit a position signal to said controller.

- 13. A method of actuating a closure member having a gas spring comprising the steps of:
- (1) attaching a linear electric motor to a gas spring along a common axis;
- (2) operating the linear electric motor to drive a gas spring between a retracted and an extended position; and
- (3) driving the gas spring with the linear electric motor to move a closure member between an open and a closed position.
- 14. A method of actuating a closure member as recited in claim 13, further comprising the step of counterbalancing the closure member with the gas spring.
- 15. A method of actuating a closure member as recited in claim 13, further comprising the step of operating the linear electric motor to drive the closure member to a locked position.
- 16. A method of actuating a closure member as recited in claim 13, further comprising the step of operating the linear electric motor to hold the closure member in a desired position.
- A method of actuating a closure member as recited in claim 13, further comprising the step of remotely actuating the linear electric motor.